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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/055,666	01/22/2002	Bernard A. Traversat	5681-07700	8016

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EXAMINER

MARTIN, NICHOLAS A

ART UNIT PAPER NUMBER

2154

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/055,666

Applicant(s)

TRAVERSAT ET AL.

Examiner

Nicholas Martin

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20,30-41 and 48-79 is/are pending in the application.
- 4a) Of the above claim(s) 21-29 and 42-47 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20,30-41 and 48-79 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>11/1/02 - 4/22/05</u> . | 6) <input type="checkbox"/> Other: _____ |

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1. Claims 1-20, 30-41 and 48-79 are presented for examination. Claims 21-29 and 42-47 are cancelled.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-20, 30-41 and 48-79 are rejected under 35 U.S.C. 102(e) as being anticipated by Mead et al. (hereinafter Mead), US 2003/0067912.

5. As per claim 1, Mead teaches a peer computing system comprising:
a plurality of peer nodes operable to couple to a network (Abstract; Paragraph [0002]);

wherein the plurality of peer nodes is configured to implement a peer-to-peer environment on the network according to a peer-to-peer platform comprising:

a core layer comprising one or more peer-to-peer platform protocols for enabling the plurality of peer nodes to discover each other, communicate with each other, and cooperate with each other to form peer groups and share content in the peer-to-peer environment (Paragraphs [0004], [0010], [0043], [0082], [0163]);

a service layer comprising one or more services each provided by one or more of the plurality of peer nodes in the peer-to-peer environment, wherein at least a subset of the services are operable to be used by the plurality of peer nodes in forming the peer groups and participating in the peer groups (Paragraphs [0003-0006]), and wherein each of the one or more services are configured to be accessed by the plurality of peer nodes in accordance with at least one of the one or more peer-to-peer platform protocols (Paragraphs [0003-0006], [0010], [0043], [0082], [0163]); and

a unique peer identifier, wherein the peer identifier is configured for use in distinguishing the particular peer node from others of the plurality of peer nodes in the peer-to-peer environment (Paragraphs [0006], [0013], [0046], [0081], [0164]).

6. As per claim 2, Mead teaches the peer computing system as recited in claim 1, wherein each of the plurality of peer nodes is further configured to bind a peer identifier corresponding to the particular peer node to a network address of the particular peer node (Paragraphs [0013], [0046-0047], [0060]).

7. As per claim 3, Mead teaches the peer computing system as recited in claim 1, wherein each of the plurality of peer nodes is further configured to access another of the plurality of peer nodes on the network using the unique peer identifier of the other peer

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node, wherein the peer node does not use a network address of the other peer node to access the other peer node (Paragraphs [0004-0006]).

8. As per claim 4, Mead teaches the peer computing system as recited in claim 3, wherein, to access the other peer node, the unique peer identifier of the other peer node is configured to be mapped to a network address of the other peer node (Abstract; Paragraphs [0017], [0087], [0152]).

9. As per claim 5, Mead teaches the peer computing system as recited in claim 3, wherein, to access the other peer node, the unique peer identifier of the other peer node is configured to be mapped to one of one or more network interfaces of the other peer node (Abstract; Paragraphs [0006], [0016]).

10. As per claim 6, Mead teaches the peer computing system as recited in claim 2, wherein each of the plurality of peer nodes is further configured to: unbind the peer identifier corresponding to the peer node from the network address; obtain a new network address; and bind the peer identifier corresponding to the peer node to the new network address (Abstract; Paragraphs [0006], [0016], [0109-0112]).

11. As per claim 7, Mead teaches the peer computing system as recited in claim 1, wherein each peer identifier is further configured for use in determining a particular peer group in which a particular peer node corresponding to the peer identifier is a member peer (Paragraphs [0004-0006], [0013], [0046-0047], [0060]).

12. As per claim 8, Mead teaches the peer computing system as recited in claim 1, wherein each of the plurality of peer nodes is further configured to participate as a member peer in one or more peer groups in the peer-to-peer environment, and wherein

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each of the plurality of peer nodes is assigned a different unique peer identifier in accordance with the peer-to-peer platform for each of the one or more peer groups in which the peer node is a member peer (Paragraphs [0004-0006], [0013], [0046-0047], [0060]).

13. As per claim 9, Mead teaches the peer computing system as recited in claim 1, wherein each of the plurality of peer nodes is further configured to: participate as a member peer in a plurality of peer groups in the peer-to-peer environment (Abstract; Paragraph [0004]); receive a message from another of the plurality of peer nodes, wherein the other peer node is a member peer in a particular one of the plurality of peer groups in which the peer node is a member peer, and wherein the message includes a peer identifier of the other peer (Paragraphs [0004-0006], [0013], [0039], [0043], [0066-0067]); and determine the particular one of the plurality of peer groups in which the other peer is a member peer from the peer identifier of the other peer (Paragraphs [0006], [0043], [0061]).

14. As per claim 10, Mead teaches the peer computing system as recited in claim 9, wherein the message specifies a resource hosted by the peer node, wherein the peer node hosts a plurality of instances of the resource, wherein each of the instances of the resource is hosted for a different one of the plurality of peer groups, and wherein the peer node is further configured to access in accordance with the message a particular one of the instances of the resource hosted for the particular one of the plurality of peer groups in which the other peer node is a member peer (Abstract; Paragraphs [0004-0006], [0013], [0039], [0043], [0066-0067]).

15. As per claim 11, Mead teaches the peer computing system as recited in claim 10, wherein the resource is a service, and wherein the instance of the resource is an instance of the service implemented on the peer node (Paragraphs [0003-0006], [0010], [0043], [0082], [0163]).

16. As per claim 12, Mead teaches the peer computing system as recited in claim 1, wherein the peer-to-peer platform defines a peer advertisement format for describing and publishing advertisements for peer nodes in the peer-to-peer environment, wherein each of the plurality of peer nodes is further configured to generate a peer advertisement for the particular peer node, wherein the peer advertisement includes a peer identifier for the peer node (Paragraphs [0004], [0039], [0043], [0052-0053], [0066-0067]).

17. As per claim 13, Mead teaches the peer computing system as recited in claim 1, further comprising a plurality of resources accessible by the plurality of peer nodes in the peer-to-peer environment, wherein each resource corresponds to a unique resource identifier configured for use in distinguishing the particular resource from other resources of the plurality of resources in the peer-to-peer environment (Paragraphs [0006], [0013], [0046], [0164]).

18. As per claim 14, Mead teaches the peer computing system as recited in claim 1, wherein the plurality of resources include one or more of peer groups, content, services, applications, pipes, and pipe endpoints, wherein pipes are communications channels between two or more peer nodes in the peer-to-peer environment (Paragraphs [0003-0006], [0010], [0043], [0082], [0163]), and wherein pipe endpoints are network

interfaces on the peer nodes that are configured to be bound to the pipes to establish the communications channels (Abstract; Paragraphs [0004-0006], [0016], [0069]).

19. As per claim 15, Mead teaches the peer computing system as recited in claim 1, wherein each of the one or more peer-to-peer platform protocols defines one or more advertisement formats for describing and publishing advertisements for resources in the peer-to-peer environment, wherein each of the plurality of peer nodes is further configured to: host a plurality of resources accessible by the plurality of peer nodes in the peer-to-peer environment; and generate a resource advertisement for each resource corresponding to the particular peer node in accordance with the peer-to-peer platform, wherein at least a subset of the resource advertisements each include a peer identifier of the peer node (Paragraphs [0004], [0039], [0043], [0052-0053], [0066-0067]).

20. As per claim 16, Mead teaches the peer computing system as recited in claim 15, wherein the resources include one or more of peer nodes, peer groups, content, services, applications, pipes, and pipe endpoints, wherein pipes are communications channels between two or more peer nodes in the peer-to-peer environment (Paragraphs [0003-0006], [0010], [0043], [0082], [0163]), and wherein the pipe endpoints are network interfaces on the peer nodes that are configured to be bound to the pipes to establish the communications channels (Abstract; Paragraphs [0004-0006], [0016], [0069]).

21. As per claim 17, Mead teaches the peer computing system as recited in claim 15, wherein each resource is assigned a unique resource identifier configured for use in distinguishing the particular resource from other resources in the peer-to-peer

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environment, and wherein each resource advertisement further includes a resource identifier assigned to a particular resource corresponding to the resource advertisement (Paragraphs [0004], [0039], [0043], [0052-0053], [0066-0067]).

22. As per claim 18, Mead teaches the peer computing system as recited in claim 1, wherein the one or more peer-to-peer platform protocols includes one or more of:

- a peer discovery protocol for discovering resources in the peer-to-peer environment, wherein the resources include one or more of peer nodes, peer groups, content, services, applications, pipes, and pipe endpoints, wherein pipes are communications channels between two or more peer nodes in the peer-to-peer environment (Paragraph [0082]);

- a peer membership protocol for use by the peer nodes in applying for membership in the peer groups (Paragraph [0004]);

- a peer resolver protocol for use in sending search queries from one peer group member to another peer group member (Paragraphs [0041], [0052-0054], [0152]);

- a peer information protocol for enabling the peer nodes to obtain information about capabilities and status of other peer nodes in the peer-to-peer environment (Paragraphs [0109-0111]);

- a pipe binding protocol for use in finding the physical location of pipe endpoints and binding the pipe endpoints, wherein pipes are communications channels between two or more peer nodes in the peer-to-peer environment, and wherein pipe endpoints are network interfaces on the peer nodes that are configured to be bound to the pipes to

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establish the communications channels (Abstract; Paragraphs [0006], [0016], [0109-0112]); and

an endpoint routing protocol for enabling the peer nodes to request peer routing information to reach the other peer nodes (Paragraph [0004], [0014], [0051-0052]).

23. As per claim 19, Mead teaches the peer computing system as recited in claim 1, wherein the unique peer identifier of one of the plurality of peer nodes is formatted in accordance with a canonical representation scheme, and wherein the unique peer identifier of a different one of the plurality of peer nodes is formatted in accordance with a different canonical representation scheme (Paragraphs [0014], [0053]).

24. As per claim 20, Mead teaches the peer computing system as recited in claim 1, wherein the one of the plurality of peer nodes is a member peer in a peer group (Paragraphs [0004-0006]), wherein member peers in the peer group are configured to use the canonical representation scheme to format unique peer identifiers within the peer group, wherein the different one of the plurality of peer nodes is a member peer in a different peer group, and wherein member peers in the different peer group are configured to use the different canonical representation scheme to format unique peer identifiers within the different peer group (Paragraphs [0014], [0053]).

25. Claims 30-41 do not teach or define any new limitations above claims 1-20 and therefore are rejected for similar reasons.

26. Claims 48-65 do not teach or define any new limitations above claims 1-20 and 30-41 and therefore are rejected for similar reasons.

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27. Claims 66-79 do not teach or define any new limitations above claims 1-20, 30-41 and 48-65 and therefore are rejected for similar reasons.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents and publications are cited to further show the state of the art with respect to "Resource Identifiers For A Peer-To-Peer Environment".

- | | | |
|-----|-----------------|------------------|
| i. | US 2002/0161821 | Narayan, et al. |
| ii. | US 2002/0062375 | Teodosiu, et al. |

A shortened statutory period for reply to this Office action is set to expire in THREE MONTHS from the mailing date of this action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Martin whose telephone number is (571) 272-3970. The examiner can normally be reached on Monday - Friday 8:30 a.m. - 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3970.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nicholas Martin
July 15, 2005

 JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100